



NEARLY 500 VISITORS SHOWED FOR THE December 7 Open House staged for Y-12ers and their families. The event was staged so that the general public could view the wallabies now stationed in the plant. The funny little kangaroo-like animals from down under

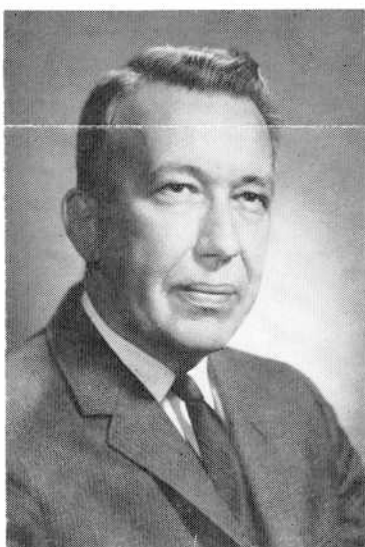
are here for genetic tests. They are gifts of the Animals and Birds Protection Board of Tasmania, and are under the charge of J. Grant Brewen, an ORNL cytogeneticist. Dr. Brewen hopes to set up a breeding colony of the little marsupials, as he also has four

potoroos, not seen in the early December open house. (If you think the wallaby looks strange, get a good look, above, at how we might look to a wallaby!) The general public will again view the wallabies this Saturday, December 21.

Nuclear Division To Be Responsibility Of Swartout, Union Carbide Vice President

Former Oak Ridger Also Responsible For UCC Efforts In Overall Research And Development

John A. Swartout has been elected a vice president of Union Carbide Corporation according to an announcement from Birny Mason Jr., chairman of the board of the corporation. Dr. Swartout has been Union Carbide's director of technology since 1966. In his new post, he will continue to be responsible for the coordination of the corporation's overall research and development; for the direct management of corporate programs at four Union Carbide research centers; and for the administration of the corporation's contract with the Atomic Energy Commission.



John A. Swartout

The programs for which Dr. Swartout has direct responsibility are oriented toward exploratory and applied research designed to lead to new business areas for the corporation. They include studies in high-temperature materials, desalination processes, the life sciences, synthetic organic chemistry, fuel cell systems, and various phases of nuclear research. These programs are carried out at Union Carbide's research centers in Tarrytown and Sterling Forest, New York; at Parma, Ohio; and at Union Carbide European Research Associates in Brussels, Belgium. Responsibilities under the Atomic Energy Commission contract are carried out at research and production facilities in Oak Ridge and Paducah by Union Carbide's Nuclear Division.

Dr. Swartout has been associated with Union Carbide since 1948 when the corporation was named by the Government as the operating contractor of the Oak Ridge National Laboratory. He had worked at the Oak Ridge project since its inception, holding several positions there and becoming an assistant director of the Laboratory in 1950. He went on to assume the post of deputy research director in 1951 and deputy director in 1955. In 1964, he took a leave of absence to join the AEC at its Washington office. He served there as assistant manager for reactors. Returning to Un-

ion Carbide in 1966, he was appointed general manager of corporation research and later in the year director of technology.

He is an alumnus of the University of Buffalo where he was graduated with the degree of BS. He received his doctorate from Northwestern University. Dr. Swartout is the author of numerous articles on nuclear reactor technology, radiochemistry, surface chemistry, and chemical separation processes. He was a member of the United States delegations to the first, second, and third international "Atoms for Peace" conferences in 1955, 1958, and 1964.

SAFETY SCOREBOARD

The Y-12 Plant Has Operated 23 Days Or 609,000 Man-Hours (Unofficial Estimate) Through December 15 Without A Disabling Injury
SAFETY AT HOME, AT WORK, AT PLAY

Grad School Begins Registration January 3

The Oak Ridge Resident Graduate Program of the University of Tennessee announces registration set for Friday, January 3.

The winter quarter will extend from January 6 through commencement on March 18. A total of 19 courses is offered in the Oak Ridge area in math, industrial management and the sciences. Information may be obtained from the graduate office on extension 3-4129.

Holidays For Next Two Wednesdays In Y-12

Next Wednesday, December 25, is an official holiday . . . as is the following Wednesday, January 1.

Merry you-know-what and happy-you-know-who!

No employee will be required to be at work, except those whose presence is required for the protection or continuous operation of the plant.

Quarterly Badge Swap Begins Next Monday

The quarterly badge exchange is due, naturally. Badges will be put in the self-service racks, Monday, December 30 . . . and will remain there until the 11 p.m. shift, Wednesday, January 8.

Radiation-monitored badges are exchanged every three months, and have been for some time.

Credit Union Closes Two Days Christmas

The staff at Y-12's Credit Union has been double-timing it lately to convert all bookkeeping facilities to the computer.

Office at the Credit Union will be closed Tuesday, December 24, and, of course, Wednesday, December 25. Regular office hours will be observed Monday, December 23, and Thursday, and Friday, December 26, and 27.

Your Credit Union is always ready to serve all its members.

THOUGHTLESS PIONEERS

Those thoughtless founding fathers. Looks like they could have put the cities closer to the airports!



LUNCH-TIME AMUSED THE VISITORS who saw the wallabies. Babies will leave the pouch, but immediately scurry back to the security of their mama's body when they are alarmed.



CHILLY WEATHER, YET CLEAR SKIES assured a record crowd for the viewing of the wallabies on December 7. These young ladies came prepared, however, and do not seem to mind the chill as they watch a wallaby grazing in the grass.

TURNPIKE ACCIDENTS

The mileage death rate on the nation's turnpikes in 1967 was less than half that on rural roads. The National Safety Council reports that there were 2.4 deaths per 100,000,000 vehicle miles of travel on turnpikes compared to 7.6 deaths per 100,000,000 miles on rural roads.

No Bulletin Planned For Wednesday Next!

As is traditional, there is no Y-12 Bulletin next week. Since its publication date of August 4, 1944 . . . there's a hiatus the last week of the year.

How about that?

1968 Safety Awards Now Being Picked

Hey, Mrs. Robinson . . . you can select your Safety Award early this year! The Safety Department has just released the list of 25 items from which Y-12ers will select their \$12 value award for 1968's outstanding safety performance.

The award represents two periods . . . from December 28, 1967 through March 21, 1968 . . . for 2,718,000 man-hours . . . and March 23, 1968 through November 21, 1968 . . . for 7,698,000 man-hours . . . \$2 and \$10 awards.

Incidentally, this will be the final award on the old plan . . . future awards will be made with gift certificates.

Today the awards are on display in North Portal . . . and move to East Portal Thursday and Friday, December 19, 20. Coming Saturday, December 21 they move to West Portal . . . until Monday, December 23. Then to Bear Creek until December 26. They remain at Central Portal Friday, Saturday and Sunday, December 27, 28, and 29 . . . then back to the Maintenance Carpenter Shop, December 29. (They have been in the Cafeteria lobby for the past 10 days.)

Items listed for Y-12er's choice include an electric blanket, an Oster blender, a tackle box, an electric can opener and knife sharpener, and ice chest, an electric drill, an electric broom, a fire extinguisher, an electric hair styler, a thermostated electric heater, a steam iron, an electric carving knife, a 2-burner Coleman lantern, an A/M-F/M electric clock-radio, a rod and reel, an 11-piece Corning Ware set, a three-piece garden set, a 19-piece socket wrench set, a 25-piece Wallace Stainless tableware set, an electric Teflon skillet, a sleeping bag, a two-burner Coleman stove, an electric toaster, and a silverplated tray.

Selection cards should be in employees' hands by now, or available shortly. Remember, the sooner they come back, the sooner they will be ordered. The sooner they are ordered, the sooner they will be distributed. How about that logic?

Awards will be distributed to employees when they all are received in the plant . . . probably in late February or early March.

Meanwhile, the year ends on another string of accident-free days begun for Y-12. Let's redouble our efforts to make 1969 even safer than this year and previous years.

The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG *Editor*



American Association Industrial Editors

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Post Office Box Y
Oak Ridge, Tenn. 37830
Telephone 3-7100



Y-12ers have a list of 25 fine awards to select their \$12 safety award for 1968 from. The list runs the gamut from an electric blanket, Corningware set, to a rod and reel. Selection cards are now being distributed throughout Y-12 . . . and Safety requests an early return, so that orders may be placed. That's pretty Eva Parker, photography, admiring the awards.

Junior Miss Title Goes To Suzie Snyder

Suzie Snyder, daughter of Mr. and Mrs. H. G. P. Snyder, has been crowned "Junior Miss" of Anderson County. The pageant climaxed for the young beauties Saturday, December 7.

Suzie's father is superintendent of Industrial Relations in Y-12. The Snyders live at 108 Norton Road, Oak Ridge.

For her talent Suzie played her own arrangement of Gershwin's "Rhapsody in Blue." She is president of the second district of the Tennessee Federation of Music of America. She teaches piano and also plays the organ. For recreation, the raven-haired beauty likes summer sports, particularly in the water.

A senior at Oak Ridge High School, she will receive a \$375 scholarship from Mr. Lynn's Finishing School, a \$150 college scholarship from the Oak Ridge Jaycees, and a diamond ring from the

Jewel Box-Kay's.

On January 13-18 Suzie will participate in the statewide competition slated in Chattanooga, where the awards in scholarships and prizes exceed \$3000.

Should she be selected as the Tennessee junior miss representative, Suzie will go on to Mobile, Alabama, to compete with many other contestants from the 50 states for the title of "America's Junior Miss," during the week-long national finals, in early March.

In school, Suzie is a member of the Pep and Biology clubs, American Field Service and Student Council. She is also an ORCMA belle and Penguin.

Other Y-12 daughters placing in the competition included Tina Pappas, daughter of Mr. and Mrs. Thomas Pappas; and Patricia Speas, daughter of Mr. and Mrs. Irv Speas. Tina and Patricia tied

for third place. Tina was also chosen "Miss Congeniality" by the contestants and received a trophy.

The pageant was sponsored here by the Jaycees and Radio Station WATE.



"You're under arrest...."



Ride wanted from vicinity of Mabry Hood or Cogdill Road, Knoxville and Concord, off Kingston Pike, to Bear Creek Portal, straight day. Paul Cofer, plant phone 3-5801, home phone Knoxville 966-4203.

Ride wanted from Tiwassi Road, Karns, to Central Portal, straight day. Jim Dulaney, plant phone 3-7596, home phone Knoxville 584-6339.

Riders wanted from Cumberland Estates, Karns, or Oak Ridge Highway, to any portal, straight day. Jim George, plant phone 3-7277, home phone Knoxville 588-6474.

Safety check your driving.

All Stars Cinch Season's First Half Bouncing Rippers In Classic Alley Race

The big All Stars nailed the lid down on the championship of the first half of the season in bowling in the Classic League last week by ripping through the Rippers for the full count. Other four-point wins went to the Pinbusters over the Playboys and the Cubs by the Swingsters.

Posting three were the Eagles by the Splinters, the Bumpers by the Markers, the Has Beens over the Eightballs and the Smelters superior to the Tigers. The Rebels and Screwballs shared two.

C. R. Lively and Otis Rackley, Bumpers, and Rudy Peltz, Has Beens, all rolled a 214 scratch game! Lee Horton, Cubs, posted a 248 handicap single . . . and a 684 series in handicap count. Norm Jarvis, Rebels, rolled a 583 scratch series.

The Bumpers were best on scratch counts in singles 896 . . . in series 2609. The Cubs copped handicap honors . . . singles of 1059, series of 3056.

Mixed Bowling Set Ends First Half

Y-12's Mixed Bowling League wound up its action last week in its season's first half, and begins the second half promptly tonight.

Up in first place were the Hits & Misses . . . out by three and one-half points. In second place were the Goofers who wrested four from the Roses 'N Thorns. The Mustangs came in strong in third with four points over the Alley Cats. (The H & M team put the Twisters down for three.)

Sharing two were the Rollers and McSprays.

Lou Sahr, Twisters, took singles honors for women, rolling a 184 scratch, 233 handicap game. Her 488 scratch series was high, and Mildred Morris, Goofers, gained a 613 handicap series. (Peg Dickens, subbing on the Mustang team rolled a 243 scratch game! It was pushed to a 271 handicap single . . . and her series were 589 scratch, 673 handicap! How about that?)

C. R. Lively, Rollers, rolled a 198 scratch, 223 handicap single. His 504 scratch series was high . . . and Jim Young, Hits & Misses, rolled a 603 handicap series.

The Mustangs swept team honors . . . singles of 753, 885 handicap . . . series of 2033 scratch, 2429 handicap.

League standings follow:

Team	W	L
Hits & Misses	36½	19½
Goofers	33	23
Mustangs	32	24
Alley Cats	28½	27½
Roses 'N Thorns	27	29
Rollers	24	32
McSprays	23	33
Twisters	21	35

SAFE WARRANTY

Sign over a brake shop: "We stand in front of our brake jobs."

League standings follow:

Team	W	L
All Stars	41½	14½
Swingsters	36	20
Rebels	36	20
Eagles	34	22
Bumpers	32	24
Has Beens	31	25
Markers	30	26
Rippers	27½	28½
Smelters	27	29
Eightballs	26	30
Splinters	26	30
Tigers	23	33
Screwballs	22	34
Pinbusters	22	34
Cubs	19	37
Playboys	15	41

Rollmasters, Big 5 In C Alley Rolloff

It looks like the Big Five and Rollmasters are in the roll-off (which was set for Monday night, December 16) . . . as they ended up in top slots in C Bowling circles.

The Rollmasters moved up by downing the Badgers for four points. Also taking four were the Parbusters over the Rounders, the Invalids by the Instrument Engineers, and the Fireballs over the Jokers Five by forfeit.

Winning three were the HiLifers over the Big Five . . . and the Royal Flush - Sunflowers match ended in a draw.

J. C. Booher, Royal Flush, and Bill Ladd, Rollmasters, each rolled a 229 scratch game. Booher's 261 handicap single was high. Ladd's 618 scratch series was high and Ray Galford, Sunflowers, posted a 645 handicap series.

The HiLifers had high singles in scratch counting with 898. The Royal Flush flushed out a 1048 handicap single total . . . and the HiLifers returned to the boards with series of 2565 scratch, 2982 handicap.

League standings follow:

Team	W	L
Big Five	39	17
Rollmasters	38	18
HiLifers	36	20
Parbusters	32	24
Royal Flush	31	25
Badgers	31	25
Fireballs	25½	29½
Sunflowers	25½	30½
Rounders	25	31
Invalids	24	32
Instrument Engineers	16	40
Jokers Five	12	44

Hunting Casualties Up In Tennessee This Year

Hunting casualties in Tennessee through December 1 were 7 deaths . . . 21 non-fatal casualties, pointing to the fact that a need to intensify hunting safety efforts locally is indicated.

Almost all hunting accidents can be avoided by the hunter using a little care, knowledge, and preparation. The things that make a safe hunter, basically, are the shooter's own knowledge, training and attitude.

STABILIZING INFLUENCE

Marriage certainly stabilizes. Translation: After the ceremony, he has to work like a horse.

Recreation



Monday, December 23
CHRISTMAS PARTIES: 8:30, 10:30 a.m., 12:30, 2:30, 4:30, 6:30 p.m., Oak Ridge High School Auditorium.

TABLE TENNIS: 8 p.m. Oak Ridge Wildcats' Den.

BOWLING: C League, 5:45 p.m. 2nd half begins. Ark Lanes.

PHYSICAL FITNESS: (For Women): 7:30 p.m. Oak Ridge High School Girls' Gym.

Tuesday, December 24
PISTOL LEAGUE: 6:15 p.m. Oak Ridge Sportsmen's Association.

Wednesday, December 25
CHRISTMAS DAY: Vacation for Y-12ers.

Thursday, December 26
BOWLING: Classic League, 5:45 p.m. Beginning 2nd Half.

Monday, December 30
BOWLING: C League, 5:45 p.m. Ark Lanes.

TABLE TENNIS: 8 p.m. Oak Ridge Wildcats' Den.

PHYSICAL FITNESS: (For Women): 7:30 p.m. Oak Ridge High School Girls' Gym.

Tuesday, December 31
PISTOL LEAGUE: 6:15 p.m. Oak Ridge Sportsmen's Association.

Wednesday, January 1
NEW YEAR'S DAY: Holiday for Y-12ers.

Volleyball Race Sees Hot Matches

Four teams still sport spotless records in the Volleyball League. The K-25 Nemesis downed the Set-Ups 15-3, 15-4, 15-9 and 15-1 on Court A last week to open the play. The Ecobums overcame the Gashouse Gang 15-1, 15-6, 15-1 and 15-0. The Defects downed the Naughts 15-7, 15-2, 15-0 and 15-5.

On Court A the Old Men ousted the K-25 Hawks 15-11, 15-13, 15-10. The Hawks won game two 15-4.

The M&C team beat the Beta Four Astros 15-6, 15-12, 15-9, and 15-8. The Semanon smashed the ORAU team 15-13, 15-4, 15-9 and 15-9.

League standings follow:

Team	W	L
Nemesis, K-25	12	0
Ecobums, ORNL	12	0
Defects, ORNL	12	0
Beavers, Y-12	8	0
Old Men, ORNL	10	2
Semanon, ORNL	9	3
Set-Ups, ORNL	4	4
M&C, ORNL	4	8
K-25 Hawks	1	11
Beta Four Astros, Y-12	0	8
Gashouse Gang, K-25	0	12
Naughts, ORNL	0	12
ORAU	0	12

WHAT IS INSULT?

The only gracious way to accept an insult is to ignore it; if you can't ignore it, top it; if you can't top it, laugh at it; if you can't laugh at it, it's probably deserved. . . . Russell Lynes.



TOBY STEELE, SON OF A. G., General Machine Shop, killed this 90-pound doe recently on a hunt at Ft. Campbell, Kentucky. The fine animal dressed out to fill the Steele freezer, of course.

Five Basketball Teams Still Undefeated As Hoopsters Rest Next Two Weeks!

Nine games went into the record books last week with the Basketball League playing only two nights.

Three teams still have three-no records—two have two-no records!

Beginning Monday, the Butter Balls barely beat the Bums in a slow-paced game 32 to 24 . . . with Bobby Belt scoring 14 of the Balls' 32 good points. Joe Gallman took 13 of the 24 points for the Bums.

Game two saw the Computes demolish the Dagmops 69 to 31. Jim Treadwell racked 21 points through the hoop . . . Phil McCulley and Larry Finch totaled 12 each.

For the losing 'Mops it was Junior Wilkerson with 16; Ray Burris, 8.

The big Biomedes beat the Bat Boys 45 to 22 in Monday's final foray. Bill Olsen outscored all others with 22 through the bucket. Hugh Beeson sank 12 for the losing Boys.

Wednesday saw six games played (Tuesday's schedule was cancelled due to the non-availability of a gym).

The Bombers belted the Beta 2 Miners 45 to 35. Bud Lewis scored 11 for the Bombers . . . John Scott 18 for the Miners.

The GBU's big Ron Gamrot tallied 24 of the 67 points to overtake the CC 69ers, who scored only 44. Harold Connors took 18 for the 69ers.

Meanwhile, over at the High

School Gym, the Cavaliers calmed the K-25 Trojans 58 to 28. Only four Trojans showed up for the first half, and by the time the final player showed up, the game was already in the bag. Big Marvin Anderson ripped the nets for 29 points. Churchill Moore, as usual, led the Trojans with 18 points.

The Ail Stars stomped the Guess Who's 61 to 38, as Noel Cramer was hot as a ball of fire . . . pouring 33 points through the hoop to lead the Ail Stars in a runaway victory. Bill Bradshaw tried in vain to keep his team in the running, with 16 points.

The Isotopes eked out a 36 to 34 victory over the Quarks in final play.

An even dozen men saw action for the winning Isotopes. It appeared the Quarks would run the Isos off the floor in the first quarter, but they regrouped and with three teams subbing freely, they finally wore the Quarks down. No scoring stars at all.

League standings follow:

Team	W	L
GBU's, Y-12	3	0
Ail Stars, Y-12	3	0
Butter Balls, ORNL	3	0
Bio Meds, ORNL	2	0
Bombers, ORNL	2	0
Cobols, K-25	2	1
Cavaliers, ORNL	2	1
CC 69ers, Y-12	1	1
Isotopes, ORNL	1	1
Computes, ORNL	1	1
Bums, Y-12	1	2
Beta 2 Miners, Y-12	1	2
Dagmops, Y-12	1	2
Guess Who, ORNL	1	2
Quarks, Y-12	0	2
Bat Boys, Y-12	0	3
Carbide Trojans, K-25	0	3
Soul Men, ORNL	0	3





YOU, TOO, CAN BE THE HIT of the holiday season with a beautiful centerpiece made of lighted candles, safely burning inside the finished holly wreath created from flameproof materials. Extreme caution is required with the use of holiday candles, warns the National Safety Council.

Christmas Decorations Should Be Flame-proof... Especially Near Candles

For years, most housewives have heard about the hazards of combining evergreens and plastic foam with candles in Christmas decorations.

Yet because these decorations are convenient and attractive, they are still used. Consequently, home fires continue to mar the holidays.

To help the harried housewife, the National Safety Council has come up with plans for new decorations that are less likely to burn but still likely to spark compliments.

Instead of circling candles with flammable evergreens and ribbons in a centerpiece, the Council suggests that you create a wreath of sculptured holly leaves from flameproof crepe paper. Built on a wire base, the wreath can be placed on a tray or plate with candles inside.

"Then, if the candles should burn down too close to the 'greens' or if a party guest should leave a burning cigarette in an ashtray close to the centerpiece, chances are that a fire won't spoil the festivities," says Sara Miles, home economist and consultant in the Council's home safety department.

You can also cut flat tree ornaments of bells, stars, and doves from flameproof crepe paper that has been soaked in starch. "Why not try an all-paper decorated tree this year, using these ornaments and a flame retardant, artificial tree?" suggests Miss Miles. "If you wish, the tree can be lighted by a spotlight."

Creating fireproof decorations can be an inexpensive holiday project for the whole family. So make your Christmas both merry and safe this year.

Sculpture Holly Wreath

A paper sculpture holly wreath, made of cut-outs from green, flameproof crepe paper, bunches of holly berries, and a ring base of chicken wire is a safe substitute for candles set among flammable evergreens, ribbon, and plastic foam. You can also hang the paper wreath safely over the fireplace mantel or near other flame sources — as long as the paper used has a flameproof label.

Here's how to do it:

1. Trace and cut out holly leaves from rolls of fireproof green crepe paper. Also trace dotted vein lines on leaf cut-outs.

2. Cut short pieces of lightweight wire or green florist's wire for leaf veins.

3. Glue wire pieces to backs of leaves along dotted vein lines.

When glue is dry, bend leaves slightly along the vein lines for realistic sculptured effect.

4. For the wreath base, use a 10" or 12" length of chicken wire, rolled lengthwise and shaped into a ring. Cover with green crepe paper. Then, glue paper holly leaves (overlapping them where desired) to wire and paper base. The wreath can also be made without a wire base by simply gluing or stitching paper leaves together in a ring.

5. Put clusters of holly berries about the wreath, and tape or glue in place.

6. The wreath is ready to hang. Or instead you might want to place it on tray or plate for a centerpiece, and arrange two or three different sized candles in the wreath's center.

Ping Pong Sees Hot Competition

With one more night to play in the first round (set for this past Monday, December 16) . . . Loyd Wyatt still leads the X Table Tennis League. He defeated Jerry Keyes last week for three games. Herb Mook moved up by downing Hugh Moore and taking a forfeit win from Jerry Manning.

Jerry Keyes defeated Bill Motley for two . . . while Motley defeated Jerry Goldstein and took a forfeit win from Manning. Ariko Hirse was credited with a forfeit win also from Manning.

X League standings:

Player	W	L
Loyd Wyatt, Y-12	17	1
Herb Mook, ORNL	14	4
Jerry Keyes, Y-12	12	6
Bill Motley, Y-12	10	5
Jerry Goldstein, ORNL	6	12
Hugh Moore, ORNL	6	12
Ariko Hirse	3	15
Jerry Manning, K-25	1	17

Art Stewart and Red Brewer, both Y-12ers, are still tied for the lead in the Y League. Stewart won three from Ken Toth last week and Brewer took three from Bob Freestone. Ed Gambill won three from Joe Lewin, and Bob Smith took three from Francois Kertesz.

Y League standings:

Art Stewart, Y-12	14	4
Red Brewer, Y-12	14	4
Bob Smith, Y-12	13	5
Ed Gambill, Y-12	11	7
Joe Lewin, ORNL	8	10
Ken Toth, ORNL	6	12
Bob Freestone, ORNL	3	15
Francois Kertesz, ORNL	3	15

NEW LOOK

We'd like to grow sideburns . . . but they make our face look like it's in parentheses.



The festive spirit of these days is brightened by several important anniversaries with Union Carbide Corporation for many Y-12ers. Congratulations.

25 YEARS

Arthur O. Mitchell, Guard Department, December 18.

R. D. Freels, Utilities Administration, December 20.

William D. Harman, Production Assay, December 20.

Clifford Holt, Buildings, Grounds and Maintenance Shops, December 20.

Charles L. Stuckey, Stores Department, December 20.

William T. Mitchell, Research Services, December 21.

Harold W. Ditchen, Research Services, December 23.

Asa Tarwater Gentry, SS Material Control, December 27.

Wiley Cook, Process Maintenance, December 28.

Howard M. Burnett, ORNL Chemical Services, December 29.

20 YEARS

Manuel H. Clayton, 9766 Machine Shop, December 19.

John K. Jenkins, Material Transfer & Packing, December 20.

15 YEARS

Darrell R. Johnson, Production Analysis, December 18.

Fred Cox, Alpha Five Machine Shop, December 21.

Mark S. Grim Jr., Facilities Engineering, December 21.

Carl R. Hudson, Special Production Scheduling and Coordination, December 21.

Vernon J. Harber, Research Services, December 26.

Stanley L. Jamruz, Area Five Maintenance, December 28.

Earl A. Tweed, H-1 Foundry, December 28.

Ralph F. Undrewood, Assembly Operations, December 28.

Kenneth A. Bivens, General Expediting and Auxiliary Services, December 29.

Eugene F. Dalton, Machine Maintenance, December 29.

10 YEARS

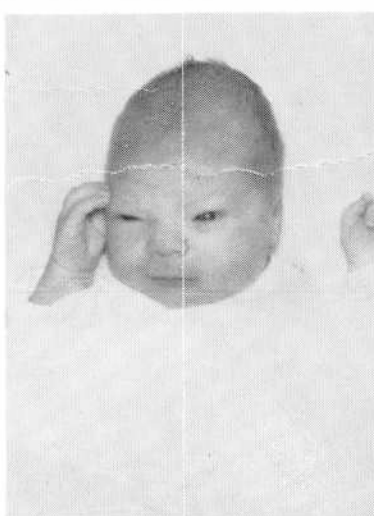
Horace V. Mynatt, General Expediting and Auxiliary Services, December 22.

Milton H. Vineyard Jr., A-2 Shops, 9212, December 22.

Coy F. Wallace, Assembly Operations, December 22.

Bernard E. Edgmon, Material Specimen Shop, December 26.

Harold L. Smith, H-2 and F-Area Shops, December 29.



LITTLE TAMMY Denise Hatmaker was born November 20, at Saint Mary's Hospital, Knoxville, weighing seven pounds, nine ounces. She is the daughter of Mr. and Mrs. Gerald D. Hatmaker, the granddaughter of J. V. McCoy, Beta Four Forming Department.

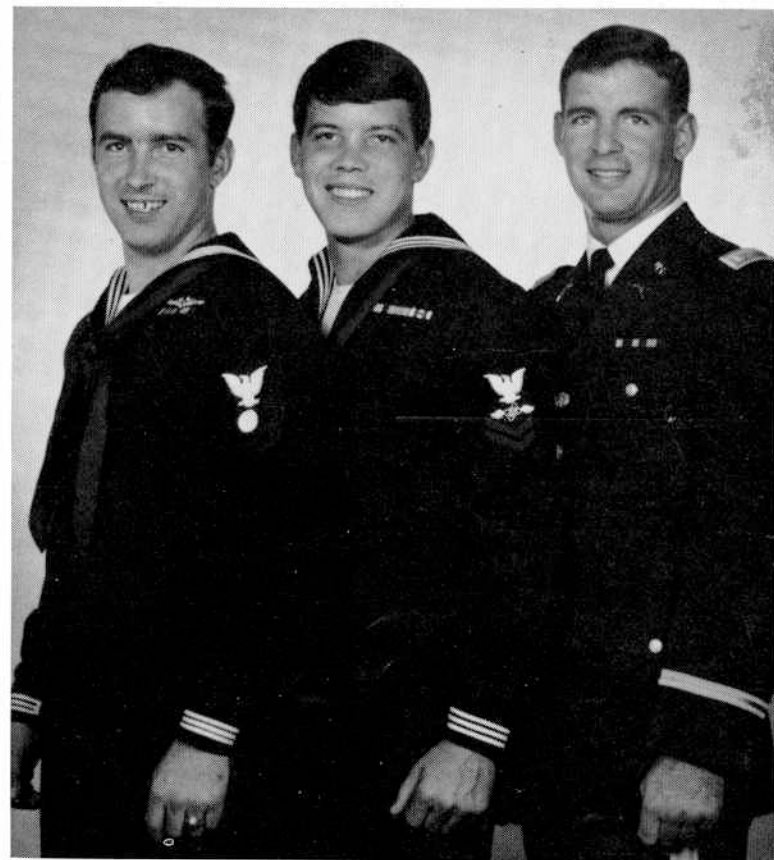


UNION CARBIDE CORPORATION
NUCLEAR DIVISION
P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

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THESE FINE YOUNG MEN helped their family celebrate Christmas early this year . . . as they were all home on leave and furlough at the same time back in October. The Mabry Williford's, 128 Jarrett Lane, Oak Ridge, was the scene of the early get-together. From left, the Williford men are Joe, 23, an electrician's mate aboard the nuclear sub USS Dace; Sidney, 24, a naval aviation electronic technician, stationed at San Diego, California; and Tommy, 21, the youngest, a first lieutenant in the 9th Infantry Division, serving in Vietnam. All three men are graduates of Jackson County High School, Gainesboro, Tennessee. They were attending Tennessee Polytechnic University, Cookeville, when they entered service. Their proud father is in Y-12's Dimensional Inspection.

How Much Shock Can You Stand?

How much electric shock can you take? . . . The real measure of shock's intensity lies in the amount of current (amperes) forced through the body, and NOT THE VOLTAGE. Individuals have been electrocuted by appliances using ordinary house currents of 110 volts and by electrical apparatus in industry using as little as 42 volts direct current. While any amount of current over 10 milliamps (0.01 amp) is capable of producing painful to severe shock, currents between 100 and 200 mA (0.1 to 0.2 amp) are lethal. Currents above 200 milliamps (0.2 amp), while producing severe burns and unconsciousness, DO NOT USUALLY CAUSE DEATH if the victim is given immediate attention. Resuscitation (artificial respiration) will generally revive the victim. Victims of high-voltage shock usually respond to artificial respiration more readily than those of low-voltage shock. Shock is relatively more severe as the current rises. At values as low as 20 milliamps, breathing becomes labored, finally ceasing completely. As the current approaches 100 milliamps, ventricular fibrillation of the heart occurs—an uncoordinated twitching of the walls of the heart's ventricles. And, above 200 milliamps the muscular contractions are so severe that the heart is forcibly clamped during the shock. Therefore, this clamping protects the heart from going into ventricular fibrillation, and the victim's chances for survival are good.

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Attention: Parents Come To Party Early!

Recreation points out that next week's Christmas parties start on time! It is suggested you plan to arrive at the Oak Ridge High School about 15 minutes before the party you are due at. This will give you time to park and walk to the ORHS auditorium.

Please bring tickets for both adults and children to next Monday's parties.

Pay-Day Early For Monthly Salaried

The Paymaster says that payday will come early this month for monthly - salaried Y-12ers. Employees who pick up their checks may do so Friday, December 20.

Folks banking by mail will receive their receipts back from their banks early, also.